

**Welcome to
Hastings Plastics
Material Safety Data Sheets
HACOL Liquid & Paste Colors for Resins**

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OPAQUE PASTE COLORS

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[HACOL 16-3A-7 BROWN](#)

[HACOL 16-3A-8 GRAY](#)

HASTINGS PLASTICS COMPANY

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

PRODUCT DATA
MSDS 16-3A-5B
*REVISED 08/10/00
REPLACES 02/22/91

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HACOL 16-3A-5B RED-ORANGE

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME - HASTINGS PLASTICS COMPANY
PRODUCT INFO / SALES - (310) 829-3449
EMERGENCY PHONE NUMBER - 24 HOURS (800) 424-9300
CHEMICAL FAMILY - Unsaturated Polyester Paste Color
CHEMICAL NAME - N/A
TRADE NAME - HACOL 16-3A-5B Red-Orange Opaque Paste Color
HMIS HAZARD RATINGS: Health - 1 / Reactivity - 0 / Flammability - 0

SECTION II - HAZARDOUS INGREDIENTS

If present, IARC, NTP, and OSHA carcinogens and chemicals subject to the reporting requirements of SARA TITLE III SECTION 313 are identified in this section.

<u>COMPONENTS</u>	<u>CAS #</u>	<u>%</u>	<u>PEL</u>	<u>TLV(units)</u>
1)CHROMIUM	7440473	4 - 5		N/D
1)LEAD	7439921	18 - 20		N/D
UNSATURATED POLYESTER VISCOUS ALKYD (PRE-POLYMER)	Mixture	26 - 30		N/D
1)DIBUTYL PHTHALATE	84-74-2	2 - 3	5MG/M3	5MG/M3

NOTES:

1)THIS CHEMICAL IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III.

SECTION III - PHYSICAL DATA

APPEARANCE, COLOR & ODOR - Red-Orange Paste
BOILING POINT - N/D
VAPOR PRESSURE - N/D
VAPOR DENSITY (Air = 1) - N/D
SPECIFIC GRAVITY - 2.16
SOLUBILITY IN WATER - Negligible
PERCENT VOLATILE - Non-Volatile
EVAPORATION RATE - N/D

SECTION IV - FIRE AND HAZARD EXPLOSION DATA

FLASH POINT - Non-Volatile
AUTOIGNITION TEMPERATURE - N/D
FLAMMABILITY LIMITS IN AIR (%BY VOL.)LOWER: N/D UPPER: N/D

BASIC FIREFIGHTING PROCEDURES:

Use extinguishing agent suitable for type of surrounding fire. Material itself burns with difficulty.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Fire may produce poisonous or irritating gas, fumes or vapor. Excessive heat may trigger polymerization of confined material. Containers may explode in heat or fire. Exposed firefighters should wear MSHA/NIOSH approved self-contained breathing apparatus with full face mask and full protective equipment.

SECTION V - HEALTH HAZARD INFORMATION

EFFECTS OF OVEREXPOSURE

INGESTION:

May cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting and diarrhea.

SKIN EFFECTS:

SLIGHTLY TO MODERATELY IRRITATING. Repeated or prolonged skin contact may cause reddening, itching and inflammation. May cause allergic reactions in some individuals. Contact with heated material may cause thermal burns.

EYE:

SLIGHTLY TO MODERATELY IRRITATING. May cause slight transient irritation. Contact with heated material may cause thermal burns.

INHALATION:

May cause respiratory tract irritation.

SPECIAL TOXIC EFFECTS:

Non-silica encapsulated lead chromate is currently listed as a suspect carcinogen, therefore this information is included, even though recent toxicity data indicates lead chromate pigments:

*Are non-carcinogenic, or at least show extremely low carcinogenic potential based on studies from lung implantation experiments on rats.

*Do not show an increase in lung cancer rate from epidemiological studies in factories which produce only lead chromate pigments.

CALIFORNIA PROPOSITION 65 STATEMENT

WARNING: This product contains a chemical known to the State of California to cause cancer. Product contains Hexavalent Chromium.

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Product contains Lead

SECTION VI - EMERGENCY & FIRST AID PROCEDURES

INGESTION:

Do not induce vomiting. If spontaneous vomiting occurs, monitor for breathing difficulty. Keep affected person warm and at rest. Get immediate medical attention.

SKIN CONTACT:

Wash area of contact thoroughly with soap and water. Remove contaminated clothing immediately. Get medical attention if irritation persists.

EYE CONTACT:

Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.

INHALATION:

Remove affected person from source of exposure. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Keep affected person warm and at rest. Get immediate medical attention.

SECTION VII - PERSONAL PROTECTION INFORMATION

EYE PROTECTION:

Wear safety glasses or chemical goggles to prevent eye contact. Do not wear contact lenses when working with this substance. Have eye washes readily available where eye contact can occur.

SKIN PROTECTION:

Wear impervious gloves and protective clothing to prevent skin contact. Use good personal hygiene. Wear regularly cleaned work clothing. Showering and changing into street clothing after work is desirable.

RESPIRATORY PROTECTION:

Ventilation may be used to control or reduce airborne concentrations. NIOSH/MSHA approved breathing equipment may be required for non-routine and emergency use.

SECTION VIII - REACTIVITY DATA

STABILITY/INCOMPATIBILITY:

Stable under normal conditions of use. Avoid contact with strong oxidizers.

HAZARDOUS REACTIONS/DECOMPOSITION PRODUCTS:

Thermal decomposition products may be hazardous. Reacts vigorously with oxidizing agents. Dissolution of material with uninhibited unsaturated monomers can result in exothermic auto-polymerization

SECTION IX - ENVIRONMENTAL INFORMATION

SPILL OR RELEASE TO THE ENVIRONMENT:

No special procedures are required for clean-up of spills or leaks of this material. Avoid methods that result in water pollution. Caution should be exercised regarding personnel safety and exposure to the spilled material, as set forth elsewhere in this data sheet.

WASTE DISPOSAL:

Hastings polyester resins, when discarded or disposed of, are not specifically listed as a hazardous waste in federal regulations. Polyester resin in the liquid state is a hazardous waste because it exhibits the characteristic of ignitability (40CFR261). Completely polymerized, fully-cured polyester resin solids are non-hazardous solid wastes. The transportation, storage, treatment, and disposal of this waste material must be conducted in compliance with all applicable Federal, State, and Local regulations.

SECTION X - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING:

Wash hands thoroughly after handling, before eating, smoking and applying cosmetics.

OTHER PRECAUTIONS: N/A

SECTION XI - TRANSPORTATION REQUIREMENTS

D.O.T. HAZARD CLASS (49CFR 172.101)	- N/A
D.O.T. PROPER SHIPPING NAME (49CFR 172.101)	- N/A
D.O.T. LABELS REQUIRED (49CFR 172.101)	- N/A
D.O.T. PLACARDS REQUIRED	- N/A
BILL OF LADING DESCRIPTION	- N/A
UN/NA CODE	- N/A

DISCLAIMER OF LIABILITY

<p>As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim liability for any use of this material. Information contained herein is believed to be true and accurate but all statements are made without warranty, express or implied, regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. It is the user's obligation to determine the conditions of safe use and the suitability of the material for the user's purpose</p>

Prepared By: Joe Morales
F#170-21A
N/D - No Data Available
N/A - Not Applicable

HASTINGS PLASTICS COMPANY

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

PRODUCT DATA
MSDS HACOL 16-3A-5C
*REVISED 08/10/00
REPLACES 02/06/91

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HACOL 16-3A-5C RED

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME - HASTINGS PLASTICS COMPANY
PRODUCT INFO/SALES - 310 8293449
EMERGENCY PHONE NUMBER - 24 HOURS 800-424-9300
CHEMICAL FAMILY - Unsaturated Polyester Paste Color
CHEMICAL NAME - N/A
TRADE NAME - HACOL 16-3A-5C Red Opaque Paste Color
HMIS HAZARD RATINGS: Health - 1 / Reactivity - 0 / Flammability - 0

SECTION II - HAZARDOUS INGREDIENTS

If present, IARC, NTP, and OSHA carcinogens and chemicals subject to the reporting requirements of SARA TITLE III SECTION 313 are identified in this section.

<u>COMPONENTS</u>	<u>CAS #</u>	<u>%</u>	<u>PEL</u>	<u>TLV(units)</u>
UNSATURATED POLYESTER VISCOUS				
ALKYD (PRE-POLYMER)	Mixture	26 - 30		N/D
1)DIBUTYL PHTALATE	84-74-2	2 - 3	5MG/M3	5MG/M3

NOTES:

1)THIS CHEMICAL IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III.

SECTION III - PHYSICAL DATA

APPEARANCE, COLOR & ODOR - Red Paste
BOILING POINT - N/D
VAPOR PRESSURE - N/D
VAPOR DENSITY (Air = 1) - N/D
SPECIFIC GRAVITY - 1.80
SOLUBILITY IN WATER - Negligible
PERCENT VOLATILE - Non-Volatile
EVAPORATION RATE - N/D

SECTION IV - FIRE AND HAZARD EXPLOSION DATA

FLASH POINT - Non-Volatile
AUTOIGNITION TEMPERATURE - N/D
FLAMMABILITY LIMITS IN AIR (%BY VOL.)LOWER: N/D UPPER: N/D

BASIC FIREFIGHTING PROCEDURES:

Use extinguishing agent suitable for type of surrounding fire. Material itself burns with difficulty.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Fire may produce poisonous or irritating gas, fumes or vapor. Excessive heat may trigger polymerization of confined material. Containers may explode in heat or fire. Exposed firefighters should wear MSHA/NIOSH approved self-contained breathing apparatus with full face mask and full protective equipment.

SECTION V - HEALTH HAZARD INFORMATION**EFFECTS OF OVEREXPOSURE****INGESTION:**

May cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting and diarrhea.

SKIN EFFECTS:

SLIGHTLY TO MODERATELY IRRITATING. Repeated or prolonged skin contact may cause reddening, itching and inflammation. May cause allergic reactions in some individuals. Contact with heated material may cause thermal burns.

EYE:

SLIGHTLY TO MODERATELY IRRITATING. May cause slight transient irritation. Contact with heated material may cause thermal burns.

INHALATION:

May cause respiratory tract irritation.

SECTION VI - EMERGENCY & FIRST AID PROCEDURES**INGESTION:**

Do not induce vomiting. If spontaneous vomiting occurs, monitor for breathing difficulty. Keep affected person warm and at rest. Get immediate medical attention.

SKIN CONTACT:

Wash area of contact thoroughly with soap and water. Remove contaminated clothing immediately. Get medical attention if irritation persists.

EYE CONTACT:

Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.

INHALATION:

Remove affected person from source of exposure. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Keep affected person warm and at rest. Get immediate medical attention.

SECTION VII - PERSONAL PROTECTION INFORMATION**EYE PROTECTION:**

Wear safety glasses or chemical goggles to prevent eye contact. Do not wear contact lenses when working with this substance. Have eye washes readily available where eye contact can occur.

SKIN PROTECTION:

Wear impervious gloves and protective clothing to prevent skin contact. Use good personal hygiene. Wear regularly cleaned work clothing. Showering and changing into street clothing after work is desirable.

RESPIRATORY PROTECTION:

Ventilation may be used to control or reduce airborne concentrations. NIOSH/MSHA approved breathing equipment may be required for non-routine and emergency use.

SECTION VIII - REACTIVITY DATA**STABILITY/INCOMPATIBILITY:**

Stable under normal conditions of use. Avoid contact with strong oxidizers.

HAZARDOUS REACTIONS/DECOMPOSITION PRODUCTS:

Thermal decomposition products may be hazardous. Reacts vigorously with oxidizing agents. Dissolution of material with uninhibited unsaturated monomers can result in exothermic auto-polymerization

SECTION IX - ENVIRONMENTAL INFORMATION**SPILL OR RELEASE TO THE ENVIRONMENT:**

No special procedures are required for clean-up of spills or leaks of this material. Avoid methods that result in water pollution. Caution should be exercised regarding personnel safety and exposure to the spilled material, as set forth elsewhere in this data sheet.

WASTE DISPOSAL:

Hastings polyester resins, when discarded or disposed of, are not specifically listed as a hazardous waste in federal regulations. Polyester resin in the liquid state is a hazardous waste because it exhibits the characteristic of ignitability (40CFR261). Completely polymerized, fully-cured polyester resin solids are non-hazardous solid wastes. The transportation, storage, treatment, and disposal of this waste material must be conducted in compliance with all applicable Federal, State, and Local regulations.

SECTION X - SPECIAL PRECAUTIONS**PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING:**

Wash hands thoroughly after handling, before eating, smoking and applying cosmetics.

OTHER PRECAUTIONS: N/A

SECTION XI - TRANSPORTATION REQUIREMENTS

D.O.T. HAZARD CLASS (49CFR 172.101)	- N/A
D.O.T. PROPER SHIPPING NAME (49CFR 172.101)	- N/A
D.O.T. LABELS REQUIRED (49CFR 172.101)	- N/A
D.O.T. PLACARDS REQUIRED	- N/A
BILL OF LADING DESCRIPTION	- N/A
UN/NA CODE	- N/A

DISCLAIMER OF LIABILITY

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Prepared By: Joe Morales

F#170-21A

N/D - No Data Available

N/A - Not Applicable

HASTINGS PLASTICS COMPANY

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

PRODUCT DATA
MSDS HACOL 16-3A-6
*REVISED 08/11/00
REPLACES 08/13/98

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HACOL 16-3A-6 MEDIUM GREEN

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME - HASTINGS PLASTICS COMPANY
PRODUCT INFO/SALES - (310) 829-3449
EMERGENCY PHONE NUMBER - 24 HOURS (800) 424-9300
CHEMICAL FAMILY - Unsaturated Polyester Paste Color
CHEMICAL NAME - N/A
TRADE NAME - HACOL 16-3A-6 Green Opaque Paste Color
HMIS HAZARD RATINGS: Health - 1 / Reactivity - 0 / Flammability - 0

SECTION II - HAZARDOUS INGREDIENTS

If present, IARC, NTP, and OSHA carcinogens and chemicals subject to the reporting requirements of SARA TITLE III SECTION 313 are identified in this section.

<u>COMPONENTS</u>	<u>CAS #</u>	<u>%</u>	<u>PEL</u>	<u>TLV(units)</u>
1)CHROMIUM	7440473	2 - 3		N/D
1)LEAD	7439921	8 - 9		N/D
UNSATURATED POLYESTER VISCOUS ALKYD (PRE-POLYMER)	Mixture	26 - 30		N/D
1)DIBUTYL PHTALATE	84-74-2	2 - 3	5MG/M3	5MG/M3
1)BLUE PIGMENT 15 (COPPER COMPOUND)	147-14-8	N/D	1MG/M3	1MG/M3

NOTES:

1)THIS CHEMICAL IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III.

SECTION III - PHYSICAL DATA

APPEARANCE, COLOR & ODOR - Green Paste
BOILING POINT - N/D
VAPOR PRESSURE - N/D
VAPOR DENSITY (Air = 1) - N/D
SPECIFIC GRAVITY - 1.80
SOLUBILITY IN WATER - Negligible
PERCENT VOLATILE - Non-Volatile
EVAPORATION RATE - N/D

SECTION IV - FIRE AND HAZARD EXPLOSION DATA

FLASH POINT - Non-Volatile
AUTOIGNITION TEMPERATURE - N/D

FLAMMABILITY LIMITS IN AIR (%BY VOL.)LOWER: N/D UPPER: N/D

BASIC FIREFIGHTING PROCEDURES:

Use extinguishing agent suitable for type of surrounding fire. Material itself burns with difficulty.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Fire may produce poisonous or irritating gas, fumes or vapor. Excessive heat may trigger polymerization of confined material. Containers may explode in heat or fire. Exposed firefighters should wear MSHA/NIOSH approved self-contained breathing apparatus with full face mask and full protective equipment.

SECTION V - HEALTH HAZARD INFORMATION**EFFECTS OF OVEREXPOSURE****INGESTION:**

May cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting and diarrhea.

SKIN EFFECTS:

SLIGHTLY TO MODERATELY IRRITATING. Repeated or prolonged skin contact may cause reddening, itching and inflammation. May cause allergic reactions in some individuals. Contact with heated material may cause thermal burns.

EYE:

SLIGHTLY TO MODERATELY IRRITATING. May cause slight transient irritation. Contact with heated material may cause thermal burns.

INHALATION:

May cause respiratory tract irritation.

SPECIAL TOXIC EFFECTS:

Non-silica encapsulated lead chromate is currently listed as a suspect carcinogen, therefore this information is included, even though recent toxicity data indicates lead chromate pigments:

*Are non-carcinogenic, or at least show extremely low carcinogenic potential based on studies from lung implantation experiments on rats.

*Do not show an increase in lung cancer rate from epidemiological studies in factories which produce only lead chromate pigments.

CALIFORNIA PROPOSITION 65 STATEMENT

WARNING: This product contains a chemical known to the State of California to cause cancer. Product contains Hexavalent Chromium.

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Product contains Lead.

SECTION VI - EMERGENCY & FIRST AID PROCEDURES**INGESTION:**

Do not induce vomiting. If spontaneous vomiting occurs, monitor for breathing difficulty. Keep affected person warm and at rest. Get immediate medical attention.

SKIN CONTACT:

Wash area of contact thoroughly with soap and water. Remove contaminated clothing immediately. Get medical attention if irritation persists.

EYE CONTACT:

Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.

INHALATION:

Remove affected person from source of exposure. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Keep affected person warm and at rest. Get immediate medical attention.

SECTION VII - PERSONAL PROTECTION INFORMATION**EYE PROTECTION:**

Wear safety glasses or chemical goggles to prevent eye contact. Do not wear contact lenses when working with this substance. Have eye washes readily available where eye contact can occur.

SKIN PROTECTION:

Wear impervious gloves and protective clothing to prevent skin contact. Use good personal hygiene. Wear regularly cleaned work clothing. Showering and changing into street clothing after work is desirable.

RESPIRATORY PROTECTION:

Ventilation may be used to control or reduce airborne concentrations. NIOSH/MSHA approved breathing equipment may be required for non-routine and emergency use.

SECTION VIII - REACTIVITY DATA**STABILITY/INCOMPATIBILITY:**

Stable under normal conditions of use. Avoid contact with strong oxidizers.

HAZARDOUS REACTIONS/DECOMPOSITION PRODUCTS:

Thermal decomposition products may be hazardous. Reacts vigorously with oxidizing agents. Dissolution of material with uninhibited unsaturated monomers can result in exothermic auto-polymerization.

SECTION IX - ENVIRONMENTAL INFORMATION**SPILL OR RELEASE TO THE ENVIRONMENT:**

No special procedures are required for clean-up of spills or leaks of this material. Avoid methods that result in water pollution. Caution should be exercised regarding personnel safety and exposure to the spilled material, as set forth elsewhere in this data sheet.

WASTE DISPOSAL:

Hastings polyester resins, when discarded or disposed of, are not specifically listed as a hazardous waste in federal regulations. Polyester resin in the liquid state is a hazardous waste because it exhibits the characteristic of ignitability (40CFR261). Completely polymerized, fully-cured polyester resin solids are non-hazardous solid wastes. The transportation, storage, treatment, and disposal of this waste material must be conducted in compliance with all applicable Federal, State, and Local regulations.

SECTION X - SPECIAL PRECAUTIONS**PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING:**

Wash hands thoroughly after handling, before eating, smoking and applying cosmetics.

OTHER PRECAUTIONS: N/A

SECTION XI - TRANSPORTATION REQUIREMENTS

D.O.T. HAZARD CLASS (49CFR 172.101)	- N/A
D.O.T. PROPER SHIPPING NAME (49CFR 172.101)	- N/A
D.O.T. LABELS REQUIRED (49CFR 172.101)	- N/A
D.O.T. PLACARDS REQUIRED	- N/A
BILL OF LADING DESCRIPTION	- N/A
UN/NA CODE	- N/A

DISCLAIMER OF LIABILITY

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Prepared By: Joe Morales

F#170-21A

N/D - No Data Available

N/A - Not Applicable

HASTINGS PLASTICS COMPANY

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

PRODUCT DATA
MSDS HACOL 16-3A-7
*REVISED 08/28/01
REPLACES 08/11/00

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HACOL 16-3A-7 BROWN

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME - HASTINGS PLASTICS COMPANY
PRODUCT INFO / SALES - (310) 829-3449
EMERGENCY PHONE NUMBER - 24 HOURS (800) 424-9300
CHEMICAL FAMILY - Unsaturated Polyester Paste Color
CHEMICAL NAME - N/A
TRADE NAME - Hacol 16-3A-7 Brown Opaque Paste Color

SECTION II - HAZARDOUS INGREDIENTS

<u>COMPONENTS</u>	<u>CAS #</u>	<u>%</u>	<u>TSCA INVENTORY</u>
IRON OXIDE	1309-37-1	40-70	Yes
UNSATURATED POLYESTER	68511-26-2	15-40	Yes

SECTION III - PHYSICAL DATA

APPEARANCE, COLOR & ODOR - Brown Paste
BOILING POINT - N/A
VAPOR PRESSURE - N/A
VAPOR DENSITY (Air = 1) - N/A
SPECIFIC GRAVITY - 1.869
SOLUBILITY IN WATER - N/A
PERCENT VOLATILE - N/A
EVAPORATION RATE - N/A

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT - 212°F Tag Closed Cup

EXTINGUISHING MEDIA:

Foam, Dry Chemical, CO2

SPECIAL FIREFIGHTING PROCEDURES:

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment / clothing. Treat as oil fire. Fight fire from a distance; sealed containers can rupture explosively when heated. Water may be used to keep fire-exposed containers cool until fire is out.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Combustion can produce toxic gases.

SECTION V - HEALTH HAZARD INFORMATION

EFFECTS OF OVEREXPOSURE:

IRON OXIDE:

ACUTE: May cause mechanical skin and eye irritation.

CHRONIC: Repeated and prolonged inhalation of iron oxide dust is known to cause siderosis. On x-rays it appears to be a benign pneumoconiosis and is not associated with pulmonary fibrosis or disability unless there is concurrent exposure to other fibrosis-producing materials such as silica. The TLV is set to protect against siderosis.

UNSATURATED POLYESTER:

If ingested may cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting and diarrhea. Contact with the skin may cause skin irritation. Repeated dermal exposures can result in an eczematous dermatitis caused by primary irritation and/or sensitization. Repeated or prolonged exposure to high vapor concentrations may be irritating to the mucous membranes and upper respiratory tract.

SECTION VI - EMERGENCY AND FIRST AID PROCEDURES**INHALATION:**

If inhaled, move individual to fresh air. Make comfortably warm but not hot. Use oxygen or artificial respiration as required. See a physician if irritation is present or persists.

SKIN:

In case of contact, remove contaminated clothing. Wash thoroughly with soap & plenty of water. See a physician if irritation is present or persists. Launder contaminated clothing before re-use.

EYES:

Immediately flush eyes with plenty of water for at least 15 minutes and get prompt medical attention.

INGESTION:

If swallowed, call a physician immediately. Induce vomiting only at the instructions of a physician. Never give anything by mouth to an unconscious person.

SECTION VII - PERSONAL PROTECTION INFORMATION**EYE PROTECTION:**

Use chemical safety goggles or full face shield.

RESPIRATORY PROTECTION:

Use appropriate NIOSH / MSHA approved respiratory protection when exposure to airborne contaminants may exceed acceptable limits. In emergency situations, or when used in confined spaces, use self-contained breathing apparatus or other air supplied full-face respirator.

VENTILATION:

Ventilate to maintain exposure below published exposure limits. Use explosion proof motors and wiring.

PROTECTIVE GLOVES:

Use impervious butyl rubber gloves. Replace as often as needed to maintain protection.

OTHER PROTECTIVE EQUIPMENT:

Eye wash stations & safety showers should be easily accessible. Where splash can occur, use protective clothing.

SECTION VIII - REACTIVITY DATA

STABILITY	-	This product may be unstable
HAZARDOUS POLYMERIZATION	-	May occur
INCOMPATIBILITY	-	Iron Oxides are not compatible with Hydrazine, Calcium Hypochlorite, Performic Acid and Bromine Pentafluoride. Polyester: Strond Acids, Peroxides, Oxidizing Agents.
CONDITIONS TO AVOID	-	Polyester: Avoid exposure to heat, open flame or contamination with oxidizing agents. Dissolution of material with uninhibited unsaturated monomers can result in exothermic autopolymerization.

HAZARDOUS DECOMPOSITION PRODUCTS:

Oxides of Carbon; incompletely burned hydrocarbons.

SECTION IX - SPILL OR LEAK PROCEDURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:**

Confine spill. Remove all sources of ignition. Ventilate area and maintain ventilation. Use all described protective measures and equipment. Use absorbant material, such as clay or sand, to collect and contain for salvage and disposal. Prevent runoff from entering drains, sewers or waterways.

WASTE DISPOSAL MEATHOD:

Follow all applicable Federal, Provincial, State and Municipal laws, regulations and by-laws. Package in U.N. approved containers and transport to an approved treatment, storage and disposal facility.

SECTION X - SPECIAL PRECAUTIONS AND STORAGE DATA**GENERAL PRECAUTIONS:**

Avoid contact with eyes, skin and clothing. Avoid breathing vapor, mist or spray. Use with good ventilation. Wash thoroughly after handling.

STORAGE:

Store in cool, dry area in closed containers away from incompatible materials. Store away from sunlight, heat, sparks and open flames. Protect containers against physical damage. Do not smoke in work area. Do not store near food or feed.

OTHER PRECAUTIONS:

Since emptied containers retain product residues (vapor, liquid or solid), all hazard precautions listed in the MSDS should be observed!

SECTION XI - REGULATORY INFORMATION**CALIFORNIA PROPOSITION 65 (BOTH CARCINOGEN AND TERATOGEN)**

WARNING! This product may contain a chemical known to the state of California to cause cancer or birth defects or other reproductive harm.

IRON OXIDE:

Although Iron Oxides themselves are not listed under Prop 65, this product may contain trace amounts of chemicals which appear on the State of California's listing of substances known to cause cancer or birth defects or other reproductive harm. (Proposition 65)

DISCLAIMER OF LIABILITY

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Prepared By: Erik Ricci
Form #170-21A

N/D - No Data Available
N/A - Not Applicable

HASTINGS PLASTICS COMPANY

1704 Colorado Ave. Santa Monica, CA 90404 310-829-3449 FAX 310-828-6820

PRODUCT DATA
MSDS 16-3A-8
*REVISED 08/11/00
REPLACES 02/22/91

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HACOL 16-3A-8 GRAY

SECTION I - PRODUCT IDENTIFICATION

MANUFACTURER'S NAME - HASTINGS PLASTICS COMPANY
PRODUCT INFO/SALES - (310) 829-3449
EMERGENCY PHONE NUMBER - 24 HOURS (800) 424-9300
CHEMICAL FAMILY - Unsaturated Polyester Paste Color
CHEMICAL NAME - N/A
TRADE NAME - HACOL 16-3A-8 Gray Opaque Paste
HIS HAZARD RATINGS: Health - 1 / Reactivity - 0 / Flammability - 0

SECTION II - HAZARDOUS INGREDIENTS

If present, IARC, NTP, and OSHA carcinogens and chemicals subject to the reporting requirements of SARA TITLE III SECTION 313 are identified in this section.

<u>COMPONENTS</u>	<u>CAS #</u>	<u>%</u>	<u>PEL</u>	<u>TLV(units)</u>
1)IRON OXIDE	1317-61-9	6-10	10MG/M3	10MG/M3
UNSATURATED POLYESTER VISCOUS				
ALKYD (PRE-POLYMER)	Mixture	26 - 30		N/D
1)DIBUTYL PHTALATE	84-74-2	2 - 3	5MG/M3	5MG/M3

NOTES:

1)THIS CHEMICAL IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF SARA TITLE III.

SECTION III - PHYSICAL DATA

APPEARANCE, COLOR & ODOR - Gray Paste
BOILING POINT - N/D
VAPOR PRESSURE - N/D
VAPOR DENSITY (Air = 1) - N/D
SPECIFIC GRAVITY - 1.99
SOLUBILITY IN WATER - Negligible
PERCENT VOLATILE - Non-Volatile
EVAPORATION RATE - N/D

SECTION IV - FIRE AND HAZARD EXLOSION DATA

FLASH POINT - Non-Volatile
AUTOIGNITION TEMPERATURE - N/D
FLAMMABILITY LIMITS IN AIR (%BY VOL.)LOWER: N/D UPPER: N/D

BASIC FIREFIGHTING PROCEDURES:

Use extinguishing agent suitable for type of surrounding fire. Material itself burns with difficulty.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Fire may produce poisonous or irritating gas, fumes or vapor. Excessive heat may trigger polymerization of confined material. Containers may explode in heat or fire. Exposed firefighters should wear MSHA/NIOSH approved self-contained breathing apparatus with full face mask and full protective equipment.

SECTION V - HEALTH HAZARD INFORMATION**EFFECTS OF OVEREXPOSURE****INGESTION:**

May cause gastrointestinal disturbances. Symptoms may include irritation, nausea, vomiting and diarrhea.

SKIN EFFECTS:

SLIGHTLY TO MODERATELY IRRITATING. Repeated or prolonged skin contact may cause reddening, itching and inflammation. May cause allergic reactions in some individuals. Contact with heated material may cause thermal burns.

EYE:

SLIGHTLY TO MODERATELY IRRITATING. May cause slight transient irritation. Contact with heated material may cause thermal burns.

INHALATION:

May cause respiratory tract irritation.

SECTION VI - EMERGENCY & FIRST AID PROCEDURES**INGESTION:**

Do not induce vomiting. If spontaneous vomiting occurs, monitor for breathing difficulty. Keep affected person warm and at rest. Get immediate medical attention.

SKIN CONTACT:

Wash area of contact thoroughly with soap and water. Remove contaminated clothing immediately. Get medical attention if irritation persists.

EYE CONTACT:

Flush immediately with large amounts of water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Get medical attention if irritation persists.

INHALATION:

Remove affected person from source of exposure. If not breathing, institute cardiopulmonary resuscitation (CPR). If breathing is difficult, ensure clear airway and give oxygen. Keep affected person warm and at rest. Get immediate medical attention.

SECTION VII - PERSONAL PROTECTION INFORMATION**EYE PROTECTION:**

Wear safety glasses or chemical goggles to prevent eye contact. Do not wear contact lenses when working with this substance. Have eye washes readily available where eye contact can occur.

SKIN PROTECTION:

Wear impervious gloves and protective clothing to prevent skin contact. Use good personal hygiene. Wear regularly cleaned work clothing. Showering and changing into street clothing after work is desirable.

RESPIRATORY PROTECTION:

Ventilation may be used to control or reduce airborne concentrations. NIOSH/MSHA approved breathing equipment may be required for non-routine and emergency use.

SECTION VIII - REACTIVITY DATA**STABILITY/INCOMPATIBILITY:**

Stable under normal conditions of use. Avoid contact with strong oxidizers.

HAZARDOUS REACTIONS/DECOMPOSITION PRODUCTS:

Thermal decomposition products may be hazardous. Reacts vigorously with oxidizing agents. Dissolution of material with uninhibited unsaturated monomers can result in exothermic auto-polymerization

SECTION IX - ENVIRONMENTAL INFORMATION**SPILL OR RELEASE TO THE ENVIRONMENT:**

No special procedures are required for clean-up of spills or leaks of this material. Avoid methods that result in water pollution. Caution should be exercised regarding personnel safety and exposure to the spilled material, as set forth elsewhere in this data sheet.

WASTE DISPOSAL:

Hastings polyester resins, when discarded or disposed of, are not specifically listed as a hazardous waste in federal regulations. Polyester resin in the liquid state is a hazardous waste because it exhibits the characteristic of ignitability (40CFR261). Completely polymerized, fully-cured polyester resin solids are non-hazardous solid wastes. The transportation, storage, treatment, and disposal of this waste material must be conducted in compliance with all applicable Federal, State, and Local regulations.

SECTION X - SPECIAL PRECAUTIONS**PRECAUTIONS TO BE TAKEN WHEN HANDLING AND STORING:**

Wash hands thoroughly after handling, before eating, smoking and applying cosmetics.

OTHER PRECAUTIONS: N/A

SECTION XI - TRANSPORTATION REQUIREMENTS

D.O.T. HAZARD CLASS (49CFR 172.101)	- N/A
D.O.T. PROPER SHIPPING NAME (49CFR 172.101)	- N/A
D.O.T. LABELS REQUIRED (49CFR 172.101)	- N/A
D.O.T. PLACARDS REQUIRED	- N/A
BILL OF LADING DESCRIPTION	- N/A
UN/NA CODE	- N/A

DISCLAIMER OF LIABILITY

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Prepared By: Joe Morales

F#170-21A

N/D - No Data Available

N/A - Not Applicable